Bridge Culvert Inspection															
Bridge File Num	adge or Town Name cated Over TRIBUTARY TO NORTH SASK RIVER, 6.26, WATERCRS-ST cated On 29:08 C1 4.681 ater Body Cl./Year and provided in Cl./Year gal Land Location and Authority and Authority and Classification and Classi						Form 7	Гуре		CUL1					
Year Built							Lot No.			4					
Bridge or Town	Name	BROSS	SEAU				Inspec	tor Name		Jason Saly					
Located Over					ATCHI	EWAN	· ·	spector Class BR CLS A							
Located On								ant Name							
Water Body Cl./	Year							Assistant Class Inspection Date 10-Jan-2013							
·										10-Jan-2013	_				
Legal Land Location NW SEC 2 TWP 56 RGE 12 W4M					ŀМ			ntry By		Marcia Chavez					
Longitude, Latitu	1:17, 53:48:55					ntry Date		12-Feb-2013 John O'Brien							
Road Authority		Alberta	Transportation	(AIT)				Reviewer Name John O'Brien Review Date 19-Jan-2013							
Contract Main. Area CMA14			ŀ					Dept. Reviewer Name							
Clear Roadway/Skew 10.1 /									Dept. Reviewer Name Dept. Review Date						
		2012 (A)				Follow-Up By									
Road Classificat	tion	RAU-2	10-110				- Follow-Op By								
Detour Length (I	km)	3													
Bridge Culvert	Informa	ation													
Number of Culve	erts		1												
Pipe #			Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape					
1	MAIN		2134	1524		RPP		35.4		152X51	2.8	PIPE ARCH			
Special Features BARREL DEICING PIPE															
Special Features	s Comn	nent													
					Uti	lities (L	ocated	at)							
Utility Attachme	nts					(,							
-						Gas									
Power 3 wire OH @ 30m East of c/l, E fencelin					ne.		Municipal								
Others							Problem (Y/N) No								
Remarks															
				Α	pproac	ch Road	l / Emb	ankment							
					Last	Now	Explar	nation of	Condi	tion					
Horizontal Alignment				9	9	-									
Vertical Alignment			9	9											
Roadway Width (m)		10.100													
Embankment					8	N	Snow	Snow covered, but no signs of problen			ms.				
Sideslope (:	:1)		5.0												
(Height of Cov	ver(m):	1.6)													
Guardrail (Y/N)			Yes												
Approach Road	d / Emb	ankme	nt General Rat	ing	9	9									
						Upstre	am Enc								
Culvert Compo	nent				Last	Now	1	nation of	Condi	tion					
Direction					Е										
End Treatment (Concrete, Steel, Others, None)															
Headwall		Х	Х												
Collar			Х	Х											
Wingwalls			Х	Х											
(Shape:)															
Cutoff Wall	Cutoff Wall			X	X										

70180 -1 Bridge Culvert

			Upstre	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		6	6	Slightly damaged edges.				
Heaving (mm)	100							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	100			_				
Scour Protection	100	7	N	Snow covered.				
(Type : RIP RAP)			11	Onow covered.				
(Avg. Rock Size(mm) : 250)				-				
Scour/Erosion		7	N					
Scour/E10sion		'	IN IN					
Beavers (Y/N)	No							
Upstream End General Rating		6	6					
		D:	-l O	Nort Borns				
Culvert Component		Last		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN							
Barrel Last Accessible Date	10-Jan-2013	Span (IIIII	ı). Z 13 ²	, moe ming. 1924, type. Krr				
Danei Lasi Accessible Date	10-Jan-2013							
Special Features								
Special Feature		3	3	25mm dia pipe strapped to both ends at roof line. Serves as steam				
(Type : BARREL DEICING PIPE)				access to thaw ice accumulations. Appears to have not been used				
Special Feature				recently and in disrepair since some connectors are broken.				
(Type:)				-				
Roof		6	6	Could not measure rise due to ice.				
		0	0	Codia not measure use due to ice.				
Measured At Ding No.				-				
Measured At Ring No.	5			_				
Sag (mm)	0			(0.2%. 08Dec2010).				
Percent Sag	U			0				
Sidewall	0.110	6	6	Span at R2=2112=22mm=1.0% Span at R6=2152=18mm				
Measured Span (mm)	2112			Span at R10=2147=13mm				
Measured At Ring No.	2							
Deflection (mm)	22			Inwards at R2				
Percent Deflection	1		1					
Floor		N	N	(Heavy scaling along floor. 15Aug2009). Ice over. Previous r=4.				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		7	7					
Separation (mm)	0							
Longitudinal Seams		5	5	Missing bolt @ L-7 South side.				
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	No							
Coating		4	4	(Heavy scaling along floor. 15Aug2009). Iced over. R=4 carried				
Corrosion By Soil (Y/N)	Yes			forward.				
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	NEG			Slight negative camber.				
				1				
Ponding (Y/N)	No							

70180 -1 Bridge Culvert

		Brio	dge Cu	lvert Barrel				
Culvert Component				•				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	<u>): 2134</u>	, Rise (mm): 1524, Type: RPP)				
Fish Passage Adequacy		X	X					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		8	8					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		5	5					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		W						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape:)								
Cutoff Wall		Х	Х					
Bevel End		7	7					
Heaving (mm)	100							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	100							
Scour Protection		7	N	Snow covered, but no visible problems.				
(Type : RIP RAP)								
(Avg. Rock Size(mm): 300)								
Scour/Erosion		7	N					
Beavers (Y/N) No								
Downstream End General Ratio	ng	7	7					
		S	tructu	re Usage				
		Last Now		Explanation of Condition				
Channel (U/S and D/S)		1	11111					
Alignment		7	7	Not a well defined channel.				
Bank Stability		8	8	Major dugout excavated U/S 150m.				
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N) No								
Channel Bottom Degrading/Aggrading				Unknown.				
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :								
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	7					

		Main	ntenance Recommen	dations					
Inspector Recommendations	Year Inspector Comments			Department Comn	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS							3		
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTOFF									
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION	2013	Replace connectors on o	deicing pipe.						
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/	Sufficiency Ra	ating (Last/Now)	68.1/	Est. Repl. Yr	2020 Maint. Re		qd. (Y/N)	Yes
Special Check floor corrosic Next Inspection	on when visible			Department Comments					
Maintenance Reviewed By				Date		E	stimated Total	I 0	
Proposed Long-Term Strategy								'	
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Dave Lam		s Assistant's Name						
Next Inspection Date	10-Oct-2014		Previous	Inspection Date	08-Dec-2010				
Inspection Cycle (Default) (months)	21								
Comment									